

## ABSTRACT:

### Surface-Modified, Doped, Pyrogenically Produced Oxides

Surface-modified, doped, pyrogenically produced oxides surface-modified with one or several compounds from the following groups:

- a) Organosilanes of the type  $(\text{RO})_3\text{Si}(\text{C}_n\text{H}_{2n+1})$ ,  $(\text{RO})_3\text{Si}(\text{C}_n\text{H}_{2n-1})$
- b)  $\text{R}'_x (\text{RO})_y \text{Si}(\text{C}_n\text{H}_{2n+1})$ ,  $(\text{RO})_3\text{Si}(\text{C}_n\text{H}_{2n+1})$
- c)  $\text{X}_3 \text{Si}(\text{C}_n\text{H}_{2n+1})$ ,  $\text{X}_3 \text{Si}(\text{C}_n\text{H}_{2n-1})$
- d)  $\text{X}_2 (\text{R}') \text{Si}(\text{C}_n\text{H}_{2n+1})$ ,  $\text{X}_2 (\text{R}') \text{Si}(\text{C}_n\text{H}_{2n-1})$
- e)  $\text{X} (\text{R}')_2 \text{Si}(\text{C}_n\text{H}_{2n+1})$ ,  $\text{X} (\text{R}')_2 \text{Si}(\text{C}_n\text{H}_{2n-1})$
- f)  $(\text{RO})_3\text{Si}(\text{CH}_2)_m\text{-R}'$ ,
- g)  $(\text{R}'')_x (\text{RO})_y \text{Si}(\text{CH}_2)_m\text{-R}'$ ,
- h)  $\text{X}_3\text{Si} (\text{CH}_2)_m\text{-R}'$ ,
- i)  $(\text{R})\text{X}_2\text{Si}(\text{CH}_2)_m\text{-R}'$ ,
- j)  $(\text{R})_2\text{X Si}(\text{CH}_2)_m\text{-R}'$ ,
- k) Silazanes of the type  $\begin{array}{c} \text{R}'\text{R}_2\text{Si-N-SiR}_2\text{R}' \\ | \\ \text{H} \end{array}$
- l) Cyclic polysiloxanes,
- m) Polysiloxanes or silicone oils.